

Major Electrical Project - 2004

Digital Controls System and Information System Upgrade (ABB) - status

Phase 1, Unit 2 portion of the project was installed during the March 2004 outage. This included replacement of the Foxboro Fox 1A Information System and Rochester ISM-1 Annunciator System with the new ABB Industrial IT system. In addition, datalinks to the Turbine Generator Supervisory Instruments (TGSi), Bently-Nevada Turbine and BFPT Vibration, Flame Scanners, Foxboro Microspec Controls and Modicon Programmable Logic Controllers were also installed. The system is operational and providing unit data to the Operators. We do have a few deficiencies that ABB has been working on since the outage and we have given them a deadline of December 31, 2004 to have all of these resolved.

Simulator Phase portion of the project was completed in June 2004 to support the installation of the Esscor supplied Simulator. The controls supplied by ABB include Turbine, Boiler Feed Pump Turbine, Boiler Combustion, Burner Management, and complete main control panel switch replacement for miscellaneous equipment. The delivery of the hardware and software by ABB to Esscor was completed the end of June 2004. Work will continue between ABB and Esscor until the Factory Acceptance Test of the Esscor Simulator, scheduled for November 2004, has been completed.

Phase 2, Unit 1 portion of the project (replacement of the Fox 1A Info System and RAS) has commenced with the completion of the partitioned database in July 2004 and the hardware configuration in August 2004. Work on this phase shall continue until installation scheduled for March 2005.

Simulator (Esscor) The development work for the simulator model has been completed over the last 12 months by Esscor. The receipt of the ABB provided hardware and software has started the next portion of the simulator project dealing with controls integration into the boiler model. This was begun in June 2004 with initial validation in September 2004 and Factory Acceptance of the simulator to be accomplished in November 2004. The final acceptance is scheduled for December 2004 with training on the simulator to begin just after the March 2005 outage.

ID Fan Variable Frequency Drives - replacements

The Unit 1 'C' and 'D' ID Fan Variable Frequency Drives are scheduled for replacement in March 2005. The new drives will be similar to the Unit 2 'D' Fan VFD which was replaced in March 2004. The Contractor, Alstom, has ordered the major components and has completed all of the construction drawings. Based on the current schedule the drives are scheduled for factory acceptance testing in January 2005 with delivery in February.